

ECOLOGY STORMWATER TREATMENT TECHNICAL REVIEW COMMITTEE
MEMBERSHIP AND CONTACT INFORMATION (as of Oct. 2002)

| NAME | AFFILIATION/ADDRESS | TELEPHONE AND FAX NUMBERS | EMAIL ADDRESS |
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| Steve Fancher | City of Portland, BES 1120 SW 5 th Avenue, Room 1100 Portland, OR 97204-1972 | (503) 823-7126 Fax (503) 823-7110 | stevef@bes.ci.portland.or.us |
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| Kate Rhoads | King County Water and Land Resources 201 S.Jackson St., Suite 600 Seattle, WA 98104 | (206) 296-8046 | kate.rhoads@metro.kc.gov |
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| Dave Tucker | Senior Program Manager Surface and Stormwater Management Utility Kitsap County Public Works Department 614 Division Street, MS-26A Port Orchard, WA 98366-4699 www.kitsapgov.com/sswm | (360) 337-7292 Fax (360) 337-6845 | DTucker@co.kitsap.wa.us |
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Biographical Sketches of the Stormwater Technical Review Committee

This Technical Review Committee has assisted Ecology in developing the testing protocol (TAPE) and reviewing emerging stormwater treatment technologies. Typically, members of the TRC would review those technologies in which they have appropriate experience. Ecology appreciates their professionalism and diligence in supporting this important component of Washington State's stormwater management program.

Hamid "Ed" Abbasi, P.E., Ch.E.

Sr. Environmental engineer
Water Quality Program
WA Department of Ecology

Education: Undergraduate degree in Chemical Engineering, University of Madras, Madras, India, M.S. Industrial Engineering, Montana State University, Bozeman, Montana

Experience: Ed worked overseas for the City of Dubai in United Arab Emirate from 1981 - 1984. At Ecology Ed has worked as a pretreatment Engineer about 19 years, municipal engineer/facility manager writing NPDES permits, reviewing engineering reports, and financial assistance and as a Stormwater Engineer.

Mark Blosser, P.E.

Water Resources Engineer,
City of Olympia Public Works,

Education: B.S. Civil Engineering, Massachusetts Institute of Technology, Master of Engineering, Environmental Engineering, University of Florida

Experience: Mark has 20 years' experience in water resources management. His focus areas have been surface water monitoring, assessment, and management; wellhead protection; and most recently, stormwater management.

Jay Cammermeyer, EIT

Washington State Department of Transportation
Northwest Region Hydraulics & Water Quality Program

Education: B.S. (1989), Cornell University, Department of Natural Resources, MSE (2001), U. of WA, Department of Civil & Environmental Engineering

Experience: Jay has two years of research as a graduate student on the maintenance and siting of stormwater management facilities and two years with WSDOT focusing on the research and development of temporary and permanent BMPs for stormwater management along highways.

Stanley J. Ciuba, P.E., Ch. E.

Sr. Environmental Engineer,
Water Quality Program,
WA Department of Ecology
300 Desmond Drive
Lacey, WA 98503
(360) 407-6435
sciu461@ecy.wa.gov

- Education: B.S. Chemical Engineering; M.S. Chemical/Environmental Engineering, N.J. Institute of Technology, Rutgers U., N.J.
- Experience: Stan's experience includes 20 years with the WA Dept. of Ecology and Delaware River Basin Commission reviewing industrial wastewater and urban stormwater pollution control systems, and 15 years of industrial R&D on cooling and boiler water additives, coatings, detergents, solvents, combustion, and high temperature boiler corrosion/ deposition. He was the primary author of Volume IV and part of Volume V of Ecology's 2001 Western WA Stormwater Manual and related SWPPP guidance manuals. Stan has 6 patents on industrial water treatment technologies.

Ken Cook, P.E.

Pierce County Water Programs,

- Education: BSCE, University of Washington
- Experience: Ken has six years with Jefferson County Public Works, managing a variety of water related projects, such as stormwater control, fish enhancement, and comprehensive flood planning and 1.5 years with Pierce County, primarily working with site development and flood hazard regulation updates.

Dana B. De Leon, P.E.

City of Tacoma
Public Works Department
Environmental Services/Science & Engineering

- Education: B.S. Chemical Engineering, Montana State University
- Experience: Dana has 15 years of experience in environmental engineering studies focused on stormwater regulatory issues, quality/quantity studies, point/nonpoint source evaluations and stormwater treatment.

Steve Fancher, PE

Bureau of Environmental Services
Portland, OR 97204

Education: B.S. Civil Engineering, University of Portland

Experience: Steve worked in the field of stormwater management for the past 8 years. He recently completed BES's September 2002 Stormwater Management Manual and currently is leading an effort with Portland's street department to design and test innovative stormwater management techniques for street runoff (titled "Water Quality Friendly Streets", or Greenstreets"). Steve has also compiled Portland's "Vendor Submission Guidance for Evaluating Stormwater Treatment Technologies" in 2001, and currently leading Portland's effort in evaluating data submissions.

John A. Lewis, P.E.

Snohomish County Public Utility District
Everett, WA 98206

Education: B.Eng., Civil Engineering, Dalhousie University

Experience: John has 30+ years of civil engineering design and construction relating to land development, hydraulics, stormwater management, wastewater treatment, pollution prevention contingency planning and industrial processes.

Max Linden

Utility Engineer
City of Yakima Wastewater Division

Education: B.S. Conservation (Specialty Wildlife Biology), WSU 1973,
A.S. Civil Engineering Technology, YVC 1982

Experience: Max has 12 years experience in Ecology's Water Quality program with a primary focus on NPS along with some industrial and construction storm water issues. He's also worked 8 years for CH2MHill and Gray and Osborne primarily in construction management with some attention to storm water management during construction activities.

Stanley A. Miller

Water Resources Program Manager
Spokane County Utilities Division

Education: B. A. in Chemistry from Central Washington University and M.S. degrees in Environmental Science and Engineering Management from Washington State University

Experience: Stan worked with local government agencies to implement ground water protection practices. He has also directed a regional water quality data collection and management program for the Spokane Valley Aquifer and participated in several surface water quality-monitoring programs in Spokane. During the last three years he has served as Project Manager for Spokane County's watershed planning program for the Little Spokane and Middle Spokane Rivers. Stan has authored or co-authored over a dozen papers and reports on Spokane area water quality and water resources management.

Ed Molash

Water Quality Engineer
WA Dept. of Transportation
Olympia, WA

Education: M.S. Environmental Engineering-1991, A.S. Computer Science-1988, Oklahoma State University, B.S. Geophysics, B.S. Civil Engineering-1981, U. of Delaware

Experience: Ed has been with WSDOT as a water quality engineer for the last 6 years providing oversight of innovative stormwater treatment projects. He has also worked as an Industrial Wastewater Engineer, 1991-1993 with the Oklahoma Water Resources Board and as an Exploration Geophysicist, 1981-1989 with Occidental Petroleum Corp. Ed has recently published "Polymer Use and Testing for Erosion Control and Sediment Control on Construction Sites", Erosion Control, Jan.-Feb. 2001
http://www.forester.net/ec_0101_polymer.html

Ed O'Brien, P.E.

Sr. Environmental Engineer
Water Quality Program
Washington Dept. of Ecology

Education: M.S., Univ. of Notre Dame

Experience: Ed has 12 years experience in stormwater that includes: writing and implementing NPDES permits for construction activities, industrial activities, and municipalities; and developing a stormwater management manual for new development and redevelopment.

Kate Rhoads

Senior Water Quality Engineer
King County Department of Natural Resources & Parks
Water & Land Resources Division, Stormwater Services Section
Seattle, WA 98104

Education: M.S. Environmental Engineering, Clemson University

Experience: Kate has 15 years experience in water quality focused on stormwater treatment and stormwater pollution prevention.

Rod Swanson

Senior Planner/Geologist
Clark County Public Works Department
Vancouver, WA 98666-9810

Education: B.S. Geology, University of Wisconsin, River Falls Campus
M.S. Geology, Portland State University, Portland, OR

Licensing: Geologist, Oregon; Geologist/Hydrogeologist, Washington

Experience: Rod has worked in water resources and environmental science since the late 1980s. His current work focuses on managing monitoring and evaluation activities for the Clark County NPDES municipal stormwater permit program.

David Tucker, P.E.

Senior Program Manager
Surface and Stormwater Management Utility
Kitsap County Public Works Department
614 Division Street, MS-26A
Port Orchard, WA 98366-4699
(360) 337-7292
(360) 377-6845 (fax)

Education: B.S., University of California, Berkeley, M.S., Civil and Environmental Engineering, U. of WA Hydrology and Water Resources

Experience: Dave has 12 years of public engineering experience on roads, stormwater design, and permit review.

Beth Schmoyer, PE

Seattle Public Utilities
Seattle, WA

Paul R. Wirfs, P.E.

Urban Hydraulic Engineer
Geo/Hydro Section
Oregon Department of Transportation
Salem, OR 97301-3871

Education: B.S. Civil Engineering from San Diego State University.

Experience: Paul has over 15 years experience in civil engineering for Caltrans, ODOT and consulting engineering firms with a primary focus on hydraulics and water quality facility design.